

IT Security course

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WEB1

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Chapter 1

WEB1

1.1 Handin

Being late, you'll get the note 0/20. Don't be late!

1.2 Instructions

Here is what you MUST respect to make your work:

1. If a list of function is given at the beginning of the exercise, you can ONLY use these for that exercise.
2. If no function name is listed at the beginning of an exercise, you can use any function you want for that exercise.
3. You can do the work on team of 2 people max if you want. Only one will give a tarball back with both names in the file AUTHORS.

Hints:

- Remember to use the *man* command!
- Read the outputs from the computer, it helps!

1.3 Web Attacks

1.3.1 How does web work?

When you go on the internet using your browser, life is easy. Browsers are doing lot of work for you, really a lot. They do network stuff to get *http://www.example.com* using DNS, converting that FQDN to an IP address, then send the right request using HTTP protocol and get the answer from a remote computer running the HTTP server.

That was the easy part, because when your browser has the answer in HTTP format (it could be other format!), it has to parse HTML language, get and parse the CSS to pretty print the HTML page, maybe do some work on javascript to render dynamicaly the page, maybe loads plugins like flash or java applets, ...

OK, so you see that using the web is not an easy thing. If you want to be able to attack something on the web (and defend youself or your company servers), you'll have to understand most of the technologies used to build the web.

1.3.2 For fun and profit

You still don't get why you lost your hotmail account or why your facebook page has been defaced by one of your friends (a bad one for sure), then you should proceed with the exercices below to train yourself on how these technologies work (HTML, JavaScript, SQL, ...).

1.4 Exercise 0: Learn and Do

Go to <http://www.newbiecontest.org/>, login and go to:

- *Challenges/Epreuves Hacking*
- *Challenges/Epreuves Javascript/Java.*

1.5 Exercise 0 Alternate: Learn and Do

Go to <http://www.hackthissite.org/>, login and go to:

- *Basic Missions*
- *Javascript missions*
- *Realistic missions* if you think you can do that.

Chapter 2

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